

ABSTRACT

Ni-Pt alloy superior in workability containing 0.1 to 20 wt% Pt and having a Vickers hardness of 40 to 90, and a target comprising the Ni-Pt alloy are provided. A manufacturing method of Ni-Pt alloy includes subjecting a raw material Ni having a 3N purity to electrochemical dissolution, neutralizing the electrolytically leached solution with ammonia, removing impurities through filtration with activated carbon, blowing carbon dioxide into the resultant solution to form nickel carbonate and exposing the resultant product to a reducing atmosphere to prepare high purity Ni powder, leaching a raw material Pt having a 3N purity with acid, subjecting the leached solution to electrolysis to prepare high purity electrodeposited Pt, and dissolving the resultant high purity Ni powder and high purity electrodeposited Pt. The method enables rolling of the Ni-Pt alloy ingot upon reducing the hardness thereof, which results in stable and efficient manufacture of a rolled target.